

Revisions to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) An expression vector to express human follicle stimulating hormone (FSH) comprising

a gene ~~encoding~~ encoding human FSH consisting of

human FSH beta subunit gene having the sequence of SEQ. ID. No. 2,

internal ribosomal entry site (IRES) sequence having the sequence of

SEQ. ID. No. 7, and

alpha human FSH subunit gene having the sequence of SEQ. ID. No.

1;

a promoter sequence of early gene of cytomegalovirus (CMV) having the sequence of SEQ. ID. No. 8;

a tripartite leader sequence of adenovirus having the sequence of SEQ. ID. No. 9;

a polyadenylation motif sequence of early gene of SV40 virus having the sequence of SEQ. ID. No. 13, and/or a polyadenylation motif sequence of bovine growth hormone (BGH) gene having the sequence of SEQ. ID. No. 14; and

a dihydrofolate reductase (DHFR) gene having the sequence of SEQ. ID. No. 12,

wherein the vector expresses FSH beta and alpha subunits that form a glycosylated FSH heterodimer.

2-7. (Canceled)

8. (Original) A recombinant transformant mass-producing human FSH prepared by introducing the expression vector of claim 1 into host cells.

9. (Canceled)

10. (Currently amended) A recombinant transformant DPFC325 (Accession No: KCLRF-BP-00082) mass-producing human FSH prepared by introducing the expression vector of claim ~~[[7]]~~ 1 into a Chinese hamster ovary (CHO) originated cell line (CHO/dhfr⁻) harboring a damaged dihydrofolate reductase (DHFR) gene.

11. (Currently amended) A method for mass-production of human follicle stimulating hormone comprising the following steps of:

~~1) preparing an expression vector containing human FSH gene; 2) transfecting host cells with the expression vector of step 1) claim 1; 3)~~

~~2) selection of selecting recombinant transformants transfected in step ~~[[2]]~~ 1; ~~[[4]]~~~~

~~3) selecting a recombinant transformant stably producing human FSH from the recombinant transformants selected in the step ~~[[3]]~~ 2; and ~~[[5]]~~~~

~~4) obtaining human FSH from the culture of the recombinant transformant selected in step ~~[[4]]~~ 3.~~

12. (Canceled)

13. (Currently amended) The method for mass-production of human follicle stimulating hormone as set forth in claim 11, wherein the host cell of step ~~[[2]]~~ 1 is a CHO originated cell line (CHO/dhfr⁻) harboring damaged dihydrofolate reductase (DHFR) gene.

14-16. (Canceled)

17. (New) The vector of claim 1, wherein the gene encoding human FSH consisting of

a human alpha subunit gene having the sequence of SEQ. ID. No. 1,
an internal ribosomal entry site (IRES) sequence having the sequence of
SEQ. ID. No. 7, and

a human FSH beta subunit gene having the sequence of SEQ. ID. No. 2.